AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

Listing of Claims

Claims 1-3 (cancelled)

Claim 4 (currently amended): A crosslinked high-molecular-weight product obtained by crosslinking a high-molecular-weight compound with a biological low-molecular-weight compound, the crosslinked high-molecular-weight product comprising a gel that is metabolized in vivo after application in vivo,

wherein the high-molecular-weight compound is at least one of <u>proteins</u>, glycosaminoglycans, chitosans, <u>polyamino acids</u> and polyalcohols,

wherein the biological low-molecular-weight compound is obtained by modifying at least one carboxyl group of malic acid, oxalacetic acid, citric acid, or *cis*-aconitic acid with N-hydroxysuccinimide or N-hydroxysulfosuccinimide.

Claim 5 (cancelled)

Claim 6 (previously presented): The crosslinked high-molecular-weight product according to claim 4, wherein the high-molecular-weight compound is a glycosaminoglycan

-2-

Submission under 37 C.F.R. §1.114

Application No. 10/527,694

Attorney Docket No. 052203

comprising chondroitin sulfate, dermatan sulfate, hyaluronic acid, heparan sulfate, heparin, or

keratan sulfate.

Claim 7 (previously presented): The crosslinked high-molecular-weight product

according to claim 4, wherein the high-molecular-weight compound is a protein comprising

collagen, atelocollagen, alkali-soluble collagen, gelatin, keratin, serum albumin, egg albumin,

hemoglobin, casein, globulin, or fibrinogen.

Claims 8-10 (cancelled)

Claim 11 (currently amended): A method for producing a crosslinked high-molecular-

weight product comprising:

reacting 0.001 to 10 percent by weight of malic acid, oxalacetic acid, citric acid, or cis-

aconitic acid with 0.001 to 10 percent by weight of N-hydroxysuccinimide or N-

hydroxysulfosuccinimide in the presence of 0.001 to 20 percent by weight of carbodiimide at a

reaction temperature of 0°C to 100°C for a reaction time of 1 to 48 hours to modify at least one

carboxyl group of the malic acid, oxalacetic acid, citric acid or cis-aconitic acid with N-

hydroxysuccinimide or N-hydroxysulfosuccinimide to obtain a biological low-molecular-weight

compound; and

crosslinking a high-molecular-weight compound with the biological low-molecular-

- 3 -

Submission under 37 C.F.R. §1.114 Application No. 10/527,694 Attorney Docket No. 052203

weight compound so as to yield a crosslinked high-molecular-weight compound comprising a gel that is metabolized *in vivo* after application *in vivo*

wherein the high-molecular-weight compound is at least one of proteins, glycosaminoglycans, chitosans, polyamino acids and polyalcohols.

Claim 12 (currently amended): A method for using <u>a [[the]]</u> crosslinked high-molecular-weight product according to claim 4, comprising: [[for]]

applying the crosslinked high-molecular-weight product according to claim 4 to one of biological adhesives, hemostatic agents, materials for embolizing blood vessels, and sealing materials for aneurysem to perform crosskinking reaction directly at affected sites.

Claim 13 (currently amended): A method for using <u>a [[the]]</u> crosslinked high-molecular-weight product according to claim 4, comprising: [[for]]

applying the crosslinked high-molecular-weight product according to claim 4 to one of adhesion preventing agents, scaffolds for tissue regeneration, and drug carrier after performance of crosslinking reaction.

Claim 14 (new): The crosslinked high-molecular-weight product according to claim 4, wherein the crosslinked high-molecular-weight product includes a moiety derived from the biological low-molecular-weight compound.